

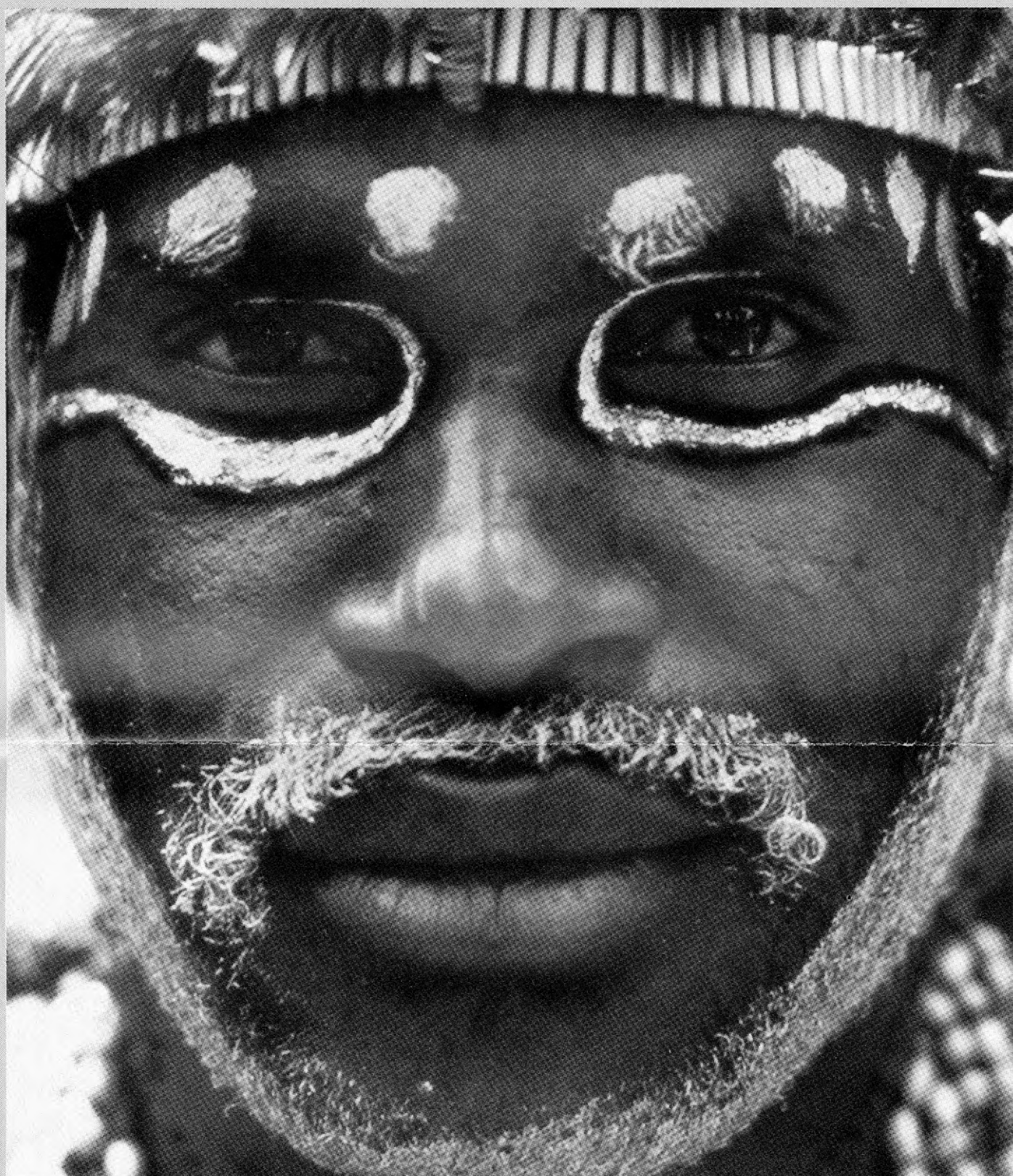
ACADEMY

Newsletter

DEDICATED
TO SCIENTIFIC
RESEARCH AND
EDUCATION,
INSPIRING
RESPECT FOR
THE NATURAL
WORLD



MEMBERS MEETING



Art Wolfe

ENDANGERED PEOPLES

with Art Davidson * Wednesday, September 14 * 2 and 7:30 p.m.

Today, indigenous peoples are demanding liberation and asking for understanding of their way of life. They seek the return of their lands and the right to determine their future. Over the course of human history, tribal peoples have emerged, migrated, joined with others and faded away. But in our time, as never before, distinct cultures and communities are vanishing almost overnight. Author Art Davidson will present a slide-illustrated lecture on the history of indigenous peoples' struggle for survival and recognition of their rights around the world. "The battle lines of cultural survival cross every continent," writes Davidson in the introduction of his book *Endangered Peoples*. "In virtually every country, indigenous peoples are fighting for their lives, their identities, their futures."

In researching his book, Davidson traveled tens of thousands of miles interviewing people whose lives and lands are threatened — whether by oil development, by large dam projects that flood their ancestral homes, by loss of their religious freedom, by famine and drought, or by political and economic strife. He will describe the crises facing the Taureg, Yup'ik, Maasai, Igorots, Ainu, Sami, Yanomami, Maori, Sarawak, and others.

A book-signing will follow the program outside the Academy bookstore in Cowell Hall. Both stores will be open before and after the programs.

Please present your membership card at the Academy entrance and again at the auditorium. Members meetings are provided as a benefit of membership and thus are only open to Academy members.

NEW EXECUTIVE DIRECTOR

William Kimball, chair of the Academy's board of trustees, announced in July the unanimous decision of the board to appoint Dr. Evelyn Handler as the next executive director of the California Academy of Sciences. Dr. Handler will assume her duties on October 1, 1994.

A distinguished biologist, an experienced administrator and a proven leader, Dr. Handler has a strong scientific background and a consummate interest in education. Dr. Handler succeeds Roy Eisenhardt who resigned the position on May 15 following five years of outstanding leadership. Dr. John McCosker, who has been serving as acting director of the Academy, will continue in that capacity until Handler's arrival.

"We are fortunate to have someone of Dr. Handler's distinction to lead the Academy at a time of heightened public awareness of the fragility of our natural environment," Kimball said. "Looking ahead to the challenges and opportunities as we move into the next century of science and learning, we are delighted to bring her unique talents to the position."

Dr. Handler received her bachelor of arts degree in

physiology and chemistry from Hunter College in 1954, and a master of science and doctorate in biology in 1962 and 1963, respectively, from New York University. From 1962 to 1977, she was on the faculty of Hunter College of the City University of New York. Her research on hematopoiesis was supported by both National Institutes of Health and National Science Foundation grants. She was appointed, in 1977, to dean of the division of sciences and



Susan Middleton

mathematics at Hunter.

From 1980 to 1983, Dr. Handler was president of the University of New Hampshire. From 1983 to 1991, she was president of Brandeis University. Subsequently, she served as scholar in residence and associate in education at Harvard University.

NEW RECIPROCAL MUSEUM LIST

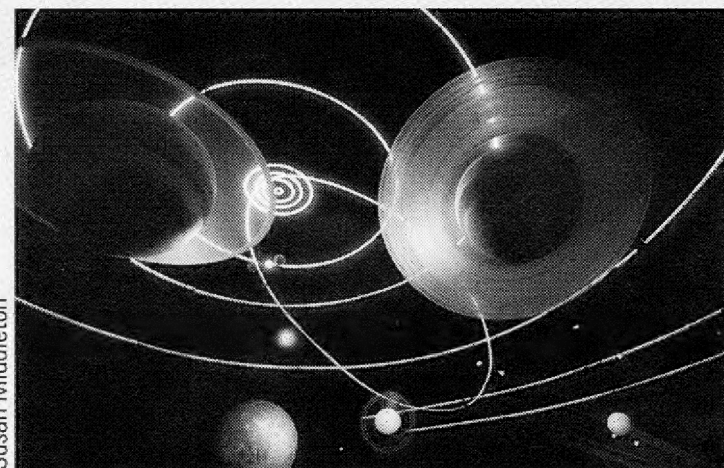
A revised list of reciprocal admission to museums is now available for members. The list includes 168 museums, science centers, planetariums, aquariums and similar institutions in 44 states and seven countries, where admission is free for members of the Academy. We've recently added thirteen new museums to the list!

The reciprocal admission list is a great benefit of your Academy membership. In the Bay Area, the list includes the Lawrence Hall of Science in Berkeley, the Lindsay Museum in Walnut Creek, and The Tech Museum of Innovation in San Jose. Stop by the membership desk at the main entrance and ask for your copy on your next visit to the Academy.

SMITHSONIAN ASTRONOMY LECTURES: MARS & THE SOLAR SYSTEM

From October 5–9 the Smithsonian Institution will present a variety of lectures and cultural events in San Francisco. The Academy will co-sponsor two of the lectures in the Academy's Auditorium.

James Zimbelman of the National Air and Space Museum will show photographs taken during both piloted and unpiloted spacecraft missions in "A Spacecraft Tour of the Solar System." The tour in-



Susan Middleton

cludes all the planets — Mercury to Pluto — and other space objects such as moons and comets. All im-

ages were obtained in the past 20 years illustrating the tremendous increase in knowledge about space.

— Saturday, October 8, 3 p.m.

Zimbelman also will present "A Close-up Look at Mars." The red planet has intrigued humanity for centuries. Discover what scientists now know about Mars as geologist Zimbelman surveys the fascinating surface of the planet. Learn how scientists have observed and mapped the Martian landscape, what kinds of surface processes have been observed and what new discoveries might be made on future Mars missions. — Sunday, October 9, 7:30 p.m.

Tickets can be purchased at the door a half hour before the lecture, or for tickets in advance, call the Smithsonian at (202) 287-3210 to receive an order form. Admission is \$5 for Academy members and \$6 for the general public.

ACADEMY TRAVEL

NEW TRIP!

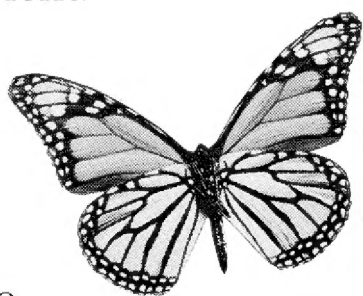
Migrating with the Monarchs

Every winter tens of millions of monarch butterflies cover the Oyamel firs of the Sierra Madre Occidental Mountains with flockings of orange. Visit the monarch's over-

wintering grounds with Joe Brennan. Our journey will take us from Mexico City (where you'll have time for sightseeing) into the heart of the Sierra Madre range to view the butterflies at El Racer Monarch Sanctuary (altitude of 10,000 feet). You'll stay at the beautiful Hotel Avandaro Golf & Spa Resort, nestled high in the pine forests.

January 28–February 3, 1995

Cost per person: \$2,030 (based on double occupancy) plus air



Susan Middleton

SPACES STILL AVAILABLE

Natural Treasures of Costa Rica and Panama

December 20–30 / Cruise aboard the *M.S. Polaris* with Luis Baptista. Cost: \$4,380–\$6,810 per person (double occupancy), plus air.

Journey Through Ethiopia

January 15–February 3 / Land exploration with Charles Griswold and Richard Pankhurst. Cost: \$7,850 per person (double occupancy), plus air.

Great Whales: Baja California

January 16–25 / Cruise aboard the *M.V. Sea Bird* with Jim Kelley. Cost: \$2,750–\$3,950 per person (double occupancy), plus air.

To enjoy one of these trips, call the Academy Travel Office at 750-7348.

TRADITIONAL ARTS

Nicaraguan Regional Dances

Ana Ofelia Boza and members of the local Nicaraguan community present a selection of traditional dances wearing colorful regional costumes. *Auditorium — Sept. 10*

Ukrainian Folk Music

Born in Lviw in the Ukraine, Ola Herasymenko-Oliynyk plays folk songs from her native country on the *bandura* — a large, lute-like instrument with 66 strings. *Auditorium — Sept. 17*

Latin American Popular Songs

Vocalist Juanita Newland-Ulloa and the Passion Ensemble perform Latin American melodies from the 1930s, including boleros and ballads, and discuss their influence on American music of the period. *Auditorium — Sept. 24*

Explore cultural traditions from around the world, Saturdays 1–2 p.m. Free after general admission. Call 750-7164, for more information.

Cafe's New Food Service is Cookin'

Welcome Gardner Merchant as the Academy's new food concessionaire! And welcome a flavorful variety of great new food items in the Jungle Cafe.

Stop in and enjoy a cappuccino, caffe latte, espresso, or a cafe mocha with a delectable muffin. If you have a tyrannosaurus-size appetite try a made-to-order Pizza Gusta, or enjoy a mouth-watering grilled chicken breast sandwich. Other pterodactyl-pleasing selections include deli sandwiches, salads, grilled cheese sandwiches, savory burgers, a daily changing hot entree, and combination and kid's meals. Be sure to check out the new food carts in the central courtyard offering glorious munchies while you relax by the whale fountain.

The Academy's Cafe is on the second level below Cowell Hall at the main entrance and is open every day of the year from 10 a.m. until one hour before the Academy closes (they will be open until 7:30 p.m. on free days, the first Wednesday of the month). You can enter via the stairs under the great white shark in Cowell Hall or from the outside stairs in the central courtyard.

The cafe is stroller and wheelchair accessible by using the elevator near African Hall. Members receive a 10 percent discount on all cafe purchases. Stop by and let us know what you think!

MORRISON PLANETARIUM



Interplanetary Journey

Special Program: Look for a unique concert that fuses multimedia Brazilian performance and Tetê Espíndolla capture the beauty of the Amazon and Pantan by taking you on a journey.

Planetarium projections and N.A.S. system will be shown while each plane Brazil's contemporary music composer Way and once at your destination on Espíndolla, with her fascinating Brazilian by the caraviola (a Brazilian instrument). Tickets for this special presentation at the planetarium box office, 750-7127,

Extreme Sky Show

Feature Sky Show: The biggest, the smallest, the coolest! Morrison Planetarium, the Academy's whirlwind trip through the universe to look at the angry face of a planet of storms; look down to get a tan (well, maybe not) in the rays of the sun daily, with additional shows at 4 p.m. on weekends.

The Moon and Beyond

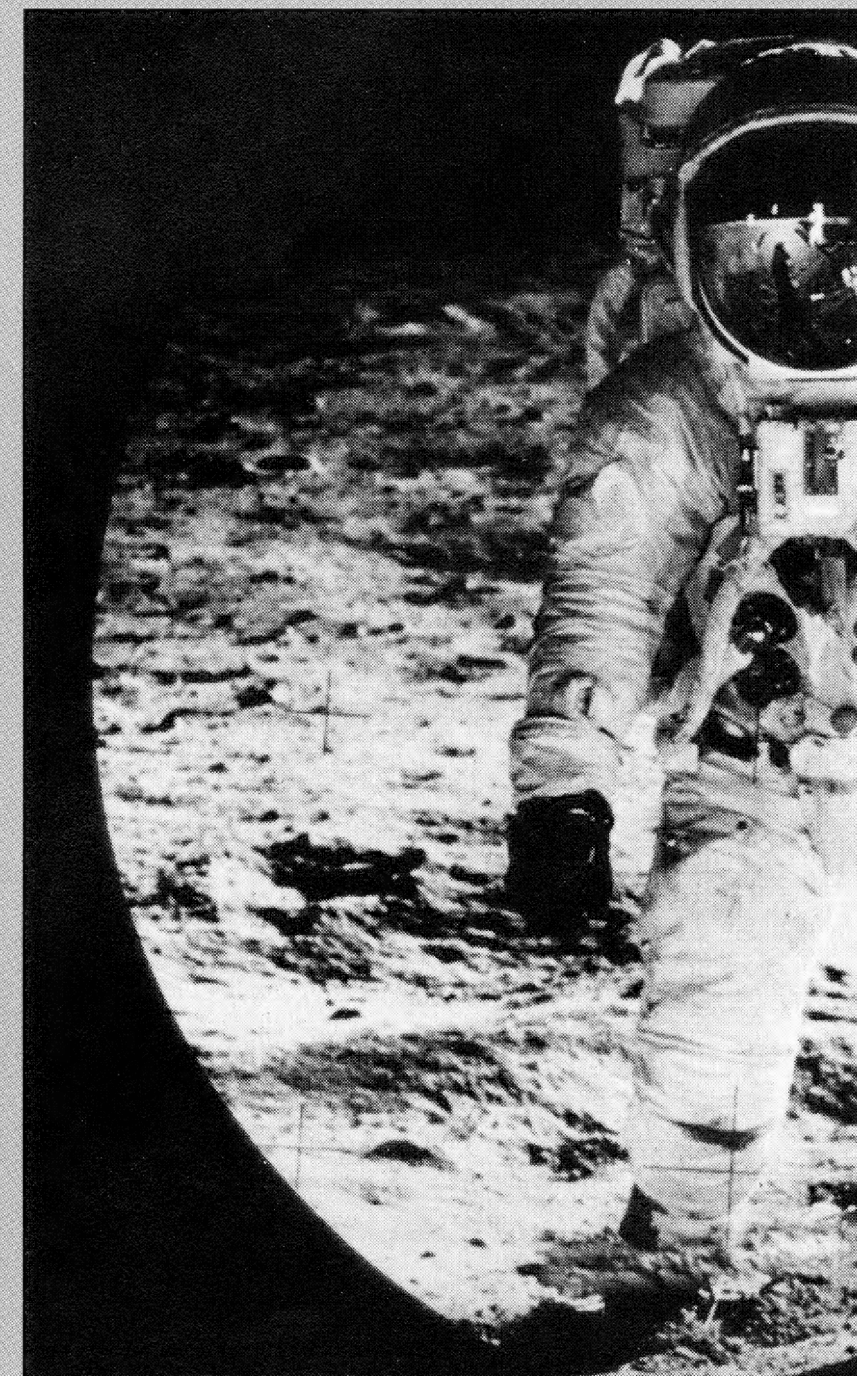
Current Sky Shows: The reverberations from the Apollo program and Jupiter may have subsided, but "IMPACTS AND 4 p.m. weekends through Sept. 11 (after Labor Day through Nov. 27). "ECHOES FROM THE MOON" 12 p.m. weekends through Labor Day. "STARTING AT 11" 12 p.m. weekdays/12 p.m. weekends; and "THE MOON" 11 a.m. daily (after Labor Day both days). The planetarium will be **closed** Sept. 12–14. Show times for "EXTREMES," starting Sept. 15.

A Man on the Moon

Lecture Series: Twenty-five years ago, July 16, 1969, man first stepped onto the moon. Science journalist Andrew Chaikin's "The Voyages of the Apollo Astronauts," looks back at the mission. He conducted extensive interviews with all those involved. Chaikin's lecture will highlight the impact on society as the first lecture in the series.

(The fall series will continue with: Dr. Frank Borman, Dr. David Morrison from NASA on Nov. 15; and Dr. S. Roger Kessel on Nov. 22). —Sept. 20, 7:30 p.m. Tickets \$2 each

For advance tickets, use the order form. Tickets available at the planetarium box office. Call 750-7141, for more information.



Journey—Mother Earth

to the sky and listen to the birds in a astronomy and ornithology in a mul-
tance. In this return visit, Maria Emília
ty and plight of the birds of Brazil's
a trip through the cosmos.

A. spacecraft images of our solar sys-
tem's theme is played on the piano by
Maria Emília. Journey down the Milky
earth, listen to the unique voice of Tetê
in bird song imitations complemented
that is a blend of viola and bandolin).
re \$8 member/\$10 nonmember. Call
to reserve. — Sept. 27 & 28, 7:30 p.m.

mes

the farthest, the fastest, the hottest, ... and
emy's "outer space place," takes you on a
at cosmic record-holders. Gaze upon the
ne maw of the biggest volcano ever seen; or
most luminous star. Presentations at 2 p.m.
ekends, from Sept. 16–Nov. 27.

and the Stars

in the collision of Comet Shoemaker-Levy 9
"SETI" continues daily at 2 p.m. weekdays/2
erward on weekends only at 1 and 3 p.m.
ON" shows at 3:30 p.m. weekdays/1 and 3
LK," a tour of the night sky, shows at 12:30
OUCH THE STARS," a family show, is pre-
shows will be featured on weekends only).
5 for show changes. See above article for
6.

the Moon

20, 1969, man first stepped off planet Earth
y Chaikin's new book, "A Man on the Moon:
at the glory of the era of moon exploration.
of the living astronauts and many technical
aim to give his readers an intimate view of
ght the Apollo program and its continuing
enjamin Dean Lecture Series.
nk Drake from the SETI Institute on Oct. 18;
nd Dr. Carol Stoker from NASA on Dec. 6.)

s are available at the door on standby basis.
more information.



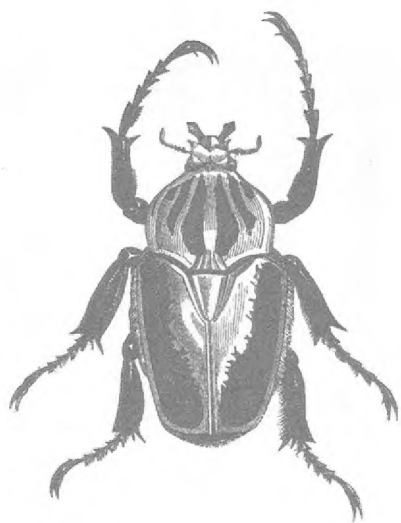
NASA

ADULT AND FAMILY EDUCATION

*New this fall! Academic credit avail-
able through San Francisco State Uni-
versity for four of the Academy's adult
education courses. Here are two of the
four courses granted this privilege
(1 credit each):*

Biological Illustration

Students of every ability, from
those who have never drawn to
those seeking to perfect their
skills, are
introduced to
illustrating the
forms of
nature. In-
structor Dr.
Charles Stasek
will explore
shaded pencil,
stippled ink,
line, coquille



and scratch boards, and shading
film techniques. A portion of each
class is devoted to a critique
session, providing individual
attention.

*Oct. 6 to Nov. 17 (7 Thurs.), 7–10 p.m.
Cost: \$110 members/\$125 nonmem-
bers (plus \$35 for optional SFSU
credit)*

Science Libraries and Alternative Resources

Here's a unique opportunity for
you to learn how to use both
traditional science library resources
and alternative research methods.
Pennington Ahlstrand, Anne Malley
and Teresa Meikle will cover topics
that include the workings of a
library, research skills and prepara-
tion, monographs, periodicals,
archives, CD-ROM resources and
internet. Also included will be a
close look at the Academy's Library
and Biodiversity Resource Center.

*Oct. 11 to Nov. 29 (8 Tues.), 7–9 p.m.
Cost: \$110 members/\$125 nonmem-
bers (plus \$35 for optional SFSU
credit)*

For more information on these and
other courses offered through the adult
and family education program, call our
office at 750-7100.

Witness: North American Endangered Species

One hundred photographs taken
by Academy photographers David
Liittschwager and Susan Middleton
for the "Witness: North American
Endangered Species" book and ex-
hibit will be the cover story of Life
Magazine's September issue.

The book, to be released in Oc-
tober, will be sold in the Academy
Store and includes an introduction
by E.O. Wilson, a leading authority
on biodiversity and a two-time
Pulitzer Prize winner. Sixty percent
of royalties from all book sales will
go toward Academy research and
education. Plus, if you purchase
the book through the Academy's
store, additional proceeds also
benefit the Academy.

Look for details about the ex-
hibit in the October newsletter!

SPECIAL LECTURES

Global Horizons and Rocky Shores

Biological responses to human impacts reverberate
throughout the environment. The end result often is
an overall outcome that is much greater than the initial
simple changes. Dr. Jane Lubchenco will discuss the
importance of being cautious in initiating environmen-
tal change.

*September 10, 6:30 p.m.
\$6 members/\$8 nonmembers*

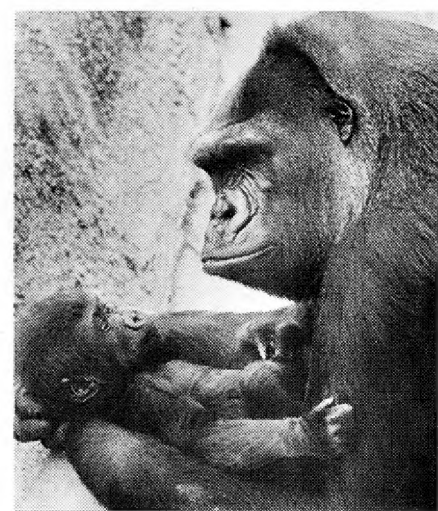


Gorilla Tactics

*Third in a Series of Lectures by Internationally Recogn-
ized Conservationists, Co-Sponsored by the Wildlife
Conservation Society*

The three sub-species of gorilla — the mountain gorilla,
Grauer's gorilla, and the western lowland gorilla — are
geographically isolated from each other across the
African forest zone and differ widely in their conserva-
tion needs. The key to their conservation success is a
mix of adaptive strategies for each of the three gorilla
populations.

Dr. Amy Vedder, director
of the Africa Program for the
Wildlife Conservation Soci-
ety, is widely known for her
research in primatology,
forest ecology, and conser-
vation biology. Her pioneer-
ing studies of the feeding
ecology and population
dynamics of free-ranging
mountain gorillas in Rwanda



Walt Lynott

during the late 1970s provided the background for
launching the Mountain Gorilla Project. By involving
the Rwandan government and local people in saving
the mountain gorillas, through park jobs and
ecotourism, the project helped increase the gorilla
population of 254 in 1981, to well over 300 by 1989.
She will discuss conservation approaches and give an
update on the current unrest in Rwanda and how it is
affecting conservation efforts there.

*October 18
Lecture, 7:30 p.m.; \$6 members/\$8 nonmembers
Reception only, 6 p.m.; \$30 members/\$35 nonmembers*

Science In Fiction and the Real Folks Behind Jurassic Park

A vast gulf exists between the world of science and that
of the liberal-arts educated public. Few have bridged
that gulf as well as noted Stanford Chemistry Professor

Carl Djerassi (alias the "father"
of the birth control pill),
whose second career as a
writer of "science in fiction" is
pulling the two worlds a little
bit closer.

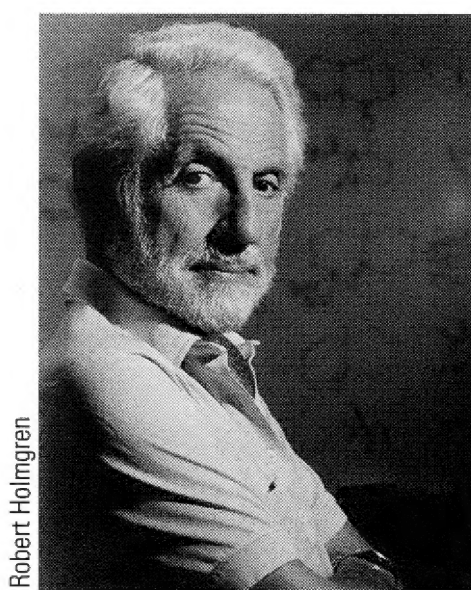
Recipient of 15 science
awards and 12 honorary
doctorates, author of 1,200
scientific articles and seven
scientific books, Dr. Djerassi
invites those of us who don't
do hard science to learn about

those who do — in his newest work of fiction, *The
Bourbaki Gambit*. Through a special literary genre,
science in fiction, he illuminates the tribal culture of
scientists, rather than dwelling on the science they do.

Djerassi, now 70, reveals how inherently collegial
and competitive the scientific tribe is, how driven it is
by the need for recognition, and talks about the graying
of Western science. While discovering what it is that
makes scientists tick, we learn how the Nobel Prize-
winning PCR methodology — glossily popularized in
the film, *Jurassic Park* — was actually developed.

*October 19, 7:30 p.m.
\$6 members/\$8 nonmembers*

Special lectures are presented in the auditorium by experts in
various aspects of natural history. Please use order form for tickets.
For more information, call 750-7128.



Robert Holmgren

Oct. 12 - Members Open House (6-9 p.m.)
Nov. 16 - Spiders, with Charles Griswold
Dec. 14 - Insects, with Richard Arnold